

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/13578

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ F02D13/02, F01L1/34, F01L9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ F02D13/02, F01L1/34, F01L9/00-9/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	JP 2002-161763 A (Unisia Jecs Corp.), 07 June, 2002 (07.06.02), Full text; all drawings (Family: none)	37-39, 49-51 40-48 52
Y	JP 2001-234765 A (Honda Motor Co., Ltd.), 31 August, 2001 (31.08.01), Full text; all drawings (Family: none)	40-48
X A	EP 0859130 A1 (TOYOTA JIDOSHA KABUSHIKI KAISHA), 19 August, 1998 (19.08.98), Full text; all drawings & US 5924395 A1 & JP 10-227236 A	53-57, 59-66 58, 67

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search
26 January, 2004 (26.01.04)

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10 February, 2004 (10.02.04)

Name and mailing address of the ISA/
Japanese Patent Office

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PCT/JP03/13578

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2001-207879 A (Nissan Motor Co., Ltd.), 03 August, 2001 (03.08.01), Full text; all drawings (Family: none)	69, 70
A	JP 2001-248410 A (Kosuke OSAYA), 14 September, 2001 (14.09.01), Full text; all drawings (Family: none)	1-36, 52, 58
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 071843/1985 (Laid-open No. 186708/1986) (Mitsubishi Motors Corp.), 21 November, 1986 (21.11.86), Full text; all drawings (Family: none)	1-36, 52, 58
A	US 5417187 A1 (Meyer et al.), 23 May, 1995 (23.05.95), Full text; all drawings & DE 4408425 A1 & JP 07-054620 A	26-36